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VOM-73SNWIN Features:

- 7" Monochrome Monitor
- Three Camera inputs
- Brightness / Contrast / Volume Day-night Controls
- Audio output
- Power / Stand-By Button
- Illuminated Front Panel
- Mirror / Normal selectable
- Auto-trigger switching compatible with turn signals



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IMPORTANT:

The VOYAGER Observation System has been designed to provide years of trouble-free operation.

Please read this manual thoroughly. This manual contains instructions to ease installation of the camera and monitor. The VOYAGER Observation System is a supplement to standard rearview mirror systems, and will provide additional rearview vision when installed and maintained properly.

The VOYAGER Observation System is not intended in any way to be a substitute for careful, cautious, defensive driving or for the consistent adherence to all applicable traffic laws and motor safety regulations. This product is not intended to be a substitute for rearview mirrors or for any other motor vehicle or boat equipment mandated by laws.

FEATURES:

VOM-73SNWIN Monochrome 7" Monitor

- Day/night switch
- Brightness and contrast controls
- Volume control.
- Power/stand-by switch
- Audio output
- Three camera inputs
- Auto-trigger switching compatible with turn signals

CONTENTS OF VOM-73SNWIN 7" Monochrome Monitor

- 1-7" monitor
- 1- Snap-on sun visor
- 1- Monitor bracket
- 1- Power harness with locking connector
- 1- Range markers
- 4- Thumb screws (M5 x 15) with plain washer & spring washers
- 4- Attachment screws with washers(M5 X 12)

VEC-65 Cable

1-20meter cable with waterproof connector. (Not supplied)

Documents:

1- Operations manual

BEFORE INSTALLATION:

- 1. This system operates from 10 volts DC to 32 volts DC, negative ground.
- 2. Please install this system according to the instructions in this manual.
- 3. DO NOT DISASSEMBLE THE CAMERA OR THE MONITOR.

 Disassembling the camera will compromise the waterproof seal and this voids the Warranty.
- 4. Connect the system to a switched ignition power source. Connection to a non-switched battery power source will reduce battery life.

** WARNING**

- 1. To prevent electrical shock, **DO NOT OPEN THE MONITOR CASE.** There are potentially lethal voltages inside the monitor, there are no serviceable parts inside, if evidence of tampering is detected, the warranty will be considered void.
- 2. Keep monitor away from leaking water, rain, moisture etc. It is not waterproof. Any moisture inside the monitor could cause extensive damage.

INSTALLATION INSTRUCTIONS VOM-73SNWIN MONITOR

- 1. Attach monitor inside vehicle in a location convenient to the driver (e.g. Center of dash, overhead or in dash). Do not impede the operator's view of any vehicle controls or the view outside the vehicle.
- 2. Use a compression plate to attach the monitor bracket to the dash or overhead (See Fig. 1).
- 3. Adjust mounting angle of the monitor to allow driver to easily view the screen from all seat position (See Fig.2).
- 4. If necessary, snap sun visor into groove on front face of monitor. Press all (4) sides of the visor to snap it into place.

VEC-65 CABLE (Not supplied)

- 1. The camera-to-cable connection is waterproof. The cable-to-monitor connection is not waterproof.

 Be sure to orient the cable properly. The cylindrical end attaches to the camera. The rectangular box end attaches to the monitor.(See Fig.3)
- 2. Do not run the VEC-65 cable over sharp edges. Do not kink the cable. Keep the cable away from hot and rotating parts.
- 3. Place all excess cable in convoluted tubing.
- 4. Tie the cable securely.

MAINTENANCE:

Remove dust and dirt with a damp soft cloth. Heavier dirt should be removed with a damp soft cloth and mild detergent. Do not use strong cleaning agents containing gasoline, thinner, benzene or alcohol. These substances may damage the exterior surface of the monitor.

** CAUTION **

- 1. Before drilling, be sure no cable or wiring is on the other side. Be sure to drill a 19mm (3/4") diameter hole only.
- 2. Feed as much cable as possible into vehicle and clamp securely. This reduces the possibility of being hooked during production.
- 3. Keep all cables away from HOT, ROTATING and ELECTRICALLY NOISY components.
- 4. To increase protection of cable, place all excess wire and extension cable in convoluted tubing.
- 5. Do not twist camera cable and do not cut camera pigtail or cable.

WIRING MONITOR

- 1. See wiring diagram for connections.(See Fig.3)
- 2. Wiring Monitor:

Insert extension cable into Right position if three cameras are used, be sure to mark each extension cable properly, plug second and third cables into Left or Back position.

Bundle excess cable together using a cable tie or vinyl tape. This will avoid possible damage to cable during operation.(See Fig.3)

3. The red wire is connected to an ignition power source, the black wire is connected to chassis ground, and the blue wire is connected to the rear gear position, the brown and green wires are connected to the direction signals.(See Fig.3)

FUNCTIONS AND OPERATION Front of Monitor: See FIGURE 4

1. Power switch : STAND- BY Monitor operates when vehicle transmission is switched into

"REVERSE" ON - monitor and system operate when ignition switch is "ON"

2. Camera selection: "Right" used mainly for rear mounted camera or as specified by the installer.

"Left" & "Back" and used mainly for side or mirror mounted camera or as specified by the installer.

3. Day/ Night switch: Pre-set brightness and contrast levels optimized for day or night operation.

4. Contrast : Variable control of contrast. Should be adjusted if the "DAY/ NIGHT"

switch does not achieve the most desirable picture.

5. Brightness : Variable control of brightness. Should be adjusted if the "DAY/ NIGHT"

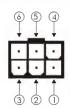
switch does not achieve the most desirable picture.

6. Volume : Variable control of internal speaker volume and output audio level.

FUNCTIONS AND OPERATION CONTINUED

Right of monitor : See FIGURE 4

7. POWER CONNECTION:



Pin No.	Description
1	Power (DC 10V ~ 32V)
2	Trigger 3 (DC 12V ~ 24V)
3	Ground
4	N/C
5	Trigger 1 (DC 12V~24V)
6	Trigger 2 (DC 12V~ 24V)

- 8. MIR/NOR OPTION
- When the switch is in MIR () position, the picture will be reversed.
- When the switch is in NOR () position, the picture will be normally displayed.
- "CA2" & "CA3" are operated individually.
- 9. AUDIO JACK
 - Connects audio connector to an (option) external speaker.
- 10. Right/Left/Back INPUT JACK
- "Right" used mainly for rear mounted camera or as specified by the installer.
- "Left" & "Back" used mainly for side or mirror mounted camera or as specified by the installer.

AFFIXING DISTANCE MARKERS TO THE MONITOR SCREEN

1. Clean monitor screen surface of fingerprints. Place distance indicators behind the vehicle at (3) feet, (6) feet and (9) feet along the width of the vehicle.

These distances are measured from the rear bumper. (Refer to fig. 5)

- 2. Attach the markers to the monitor screen over the images of the distance indicators.

 These markers represent distances of (3) feet, (6) feet and (9) feet from the back of the vehicle (See fig.5)
- 3. Affix the "STOP" marker on the monitor screen over the image of the rear bumper to locate the rear bumper.
- 4. The monitor screen is now "calibrated" for distances behind the vehicle of (3) feet, (6) feet and (9) feet.

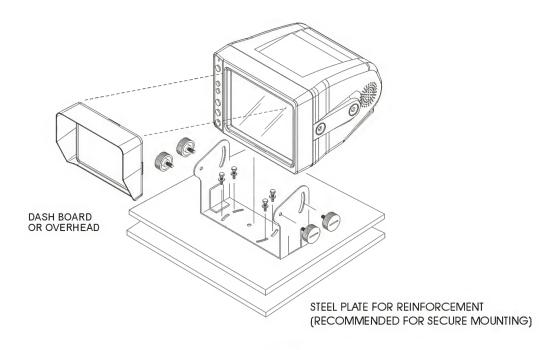
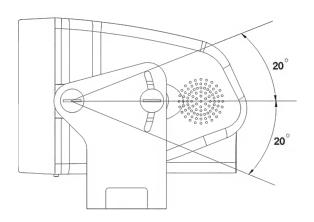
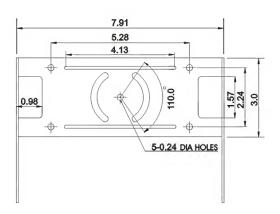


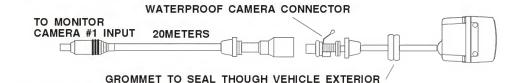
FIGURE 1



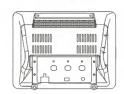


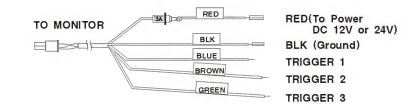
MONITOR MOUNTING HOLE PATTERN

FIGURE 2

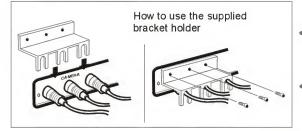


REAR OF MONITOR





CONNECTIONS

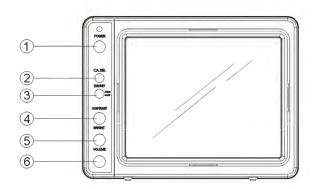


Caution

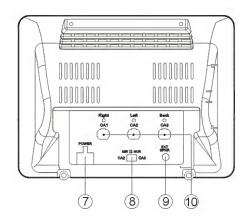
- Before making the connections, disconnect the ground terminal of the car battery to avoid short circuiting.
- The plugs should be fully inserted into the connectors or jacks. A loose connection may cause the unit to malfunction.

FIGURE 3

- MONITOR FRONT VIEW -



- MONITOR BACK VIEW -



MONITOR OPERATING CONTROLS AND CONNECTIONS

FIGURE 4

VOM-73SNWIN OPERATIONS MANUAL 1 • 2 • INDICATOR 4 • STOP 3FT 6FT STOP WIDTH OF VEHICLE MARKERS EXAMPLE FIGURE 5 VOM-73SNWIN

Operation Manual SPECIFICATIONS:

System Rated voltage 12 volt DC, negative ground

Operating voltage Current consumption 10 to 32 volt DC

2.0 amperes (at 12vdc)

VOM-73SNWIN monitor TV system EΙΑ

> Black and White Picture tube

7 inch picture measured diagonally 90° degree deflection angle

Factory preset to normal image Picture image

Picture resolution 600 TV lines

Red : Positive Power Power connector

Black: Grand

Blue: Trigger 1 (12V ~ 24V) Brown: Trigger 2 (12V ~ 24V) Green: Trigger 3 (12V ~ 24V)

Inputs 4-pin mini jack

1) 12V, 0.2A DC (output)

2) Video input :1.0V p-p Sync. Negative

3) Ground 4) Audio input

Power requirements 10V to 32V DC Power consumption 20W Maximum

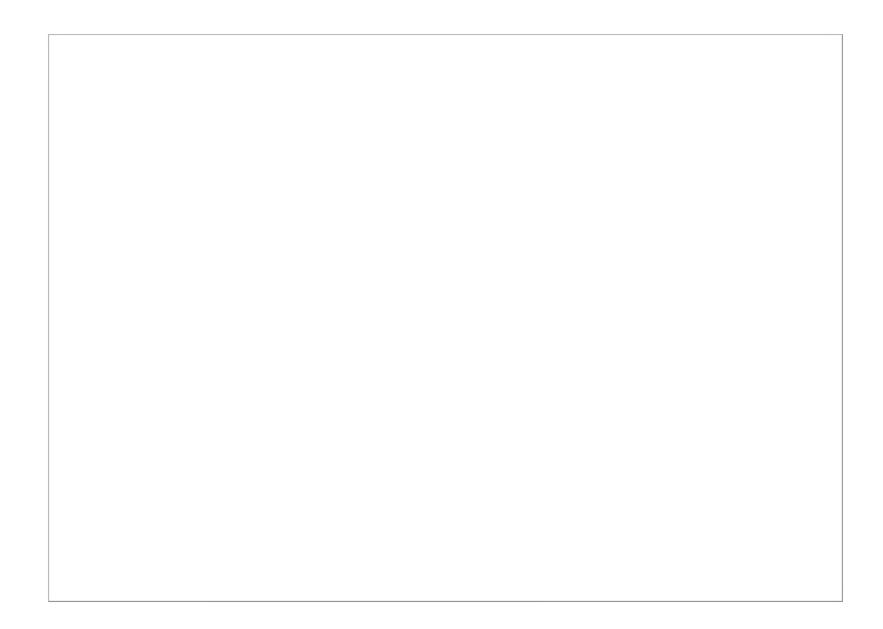
Dimensions		Operating Temperature Range Storage Temperature Range 200(W) X 152(H) X 220(D) mm 7.9(W) X 6.0(H) X 8.7(D) Inch Including projecting parts and control		-15°C to + 50°C (+5°F to +122°F) -25°C to + 85°C (-13°F to +185°F)
Weight Approx.		2.5Kg / 5 lbs Including mounting bracket		
Accessories Supplied:	A -	Mounting bracket NUT Machine screws Tapping screws Spring washers Flat washers (12X5) Flat washers (20X5)	1EA 4EA 4EA 4EA 4EA 4EA	
	В-	Cable bracket Machine screws	1EA 3 EA	
	C - D -	Handle screws Sun visor	4EA 1EA	
Power cable		5 ft (1.5m)		

DISCLAIMER: The use of the VOYAGER Observation system does not guarantee or promise that the user will not be in an accident or otherwise not collide with an object.

The VOYAGER Observation system is not intended in any way to be a substitute for careful and cautious driving or for the consistent adherence to all applicable traffic laws and motor safety regulations.

This product is not intended to be a substitute for rearview mirrors or for any other motor vehicle or boat equipment mandated by law.

* Design And Specifications Are Subject To Change Without Notice.



WARRANTY

90 DAY / 12 MONTH LIMITED WARRANTY

AUDIOVOX SPECIALIZED APPLICATION, LLC (the Company) warrants to the original retail purchaser of this product that should this product or any part thereof, under normal use and conditions, be proven defective in material or workmanship within 90 days from the date of original purchase, such defect(s) will be repaired or replaced (at the Company's option) without charge for parts and repair labor. After the initial 90 day period and for a period of 12 months from the date of original purchase, the Company will supply at no charge a replacement for any defective part(s).

To obtain repair or replacement within the terms of this warranty, the end user should contact the O.E.M. The product is to be delivered to the OEM or original place of purchase, with proof of warranty coverage (e.g. dated bill of sale, and serial number of the unit, and vin#), specification of defect(s), transportation prepaid, to an approved warranty station.

This warranty does not extend to the elimination of externally generated static or noise, to the correction of antenna problems, to costs incurred for removal or reinstallation of the product, or to any damage to any tapes, speakers, accessories, or electrical systems.

This warranty dose not apply to any product or part thereof which, in the opinion of the Company, has been damaged through alteration, improper installation, mishandling, misuse, neglect, accident, THE EXTENT OF THE COMPANY'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT PROVIDED ABOVE, AND, IN NO EVENT, SHALL THE COMPANTY'S LIABILITY EXCEED THE PURCHASE PRICE PAID BY THE PURCHASER FOR THE PRODUCT.

This warranty is in lieu of all other express warranties or liabilities. ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILTY, SHALL BE LIMITED TO THE DURATION OF THIS WARRANTY. ANY ACTION FOR BREECH OF ANY WARRANTY HEREUNDER INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY MUST BE BROUGHT WITHIN A PERIOD OF 30 DAYS FROM THE DATE OF ORIGINAL PURCHASE. IN NO CASE SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREECH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WHATSOEVER. No person or representative is authorized to assume for the Company any liability other that expressed herein in connection with the sale of this product.

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